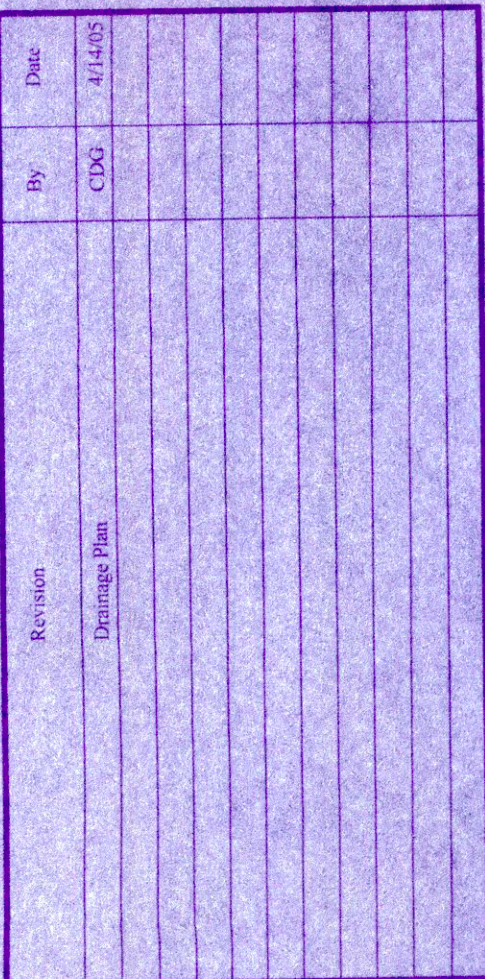




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MEL CURRIE BLUFF
SUBDIVISION
PRELIMINARY PLAT
FOR
KENT & TONI MOSEMAN

DESIGNED BY : P.O.T

WNBX-DT S

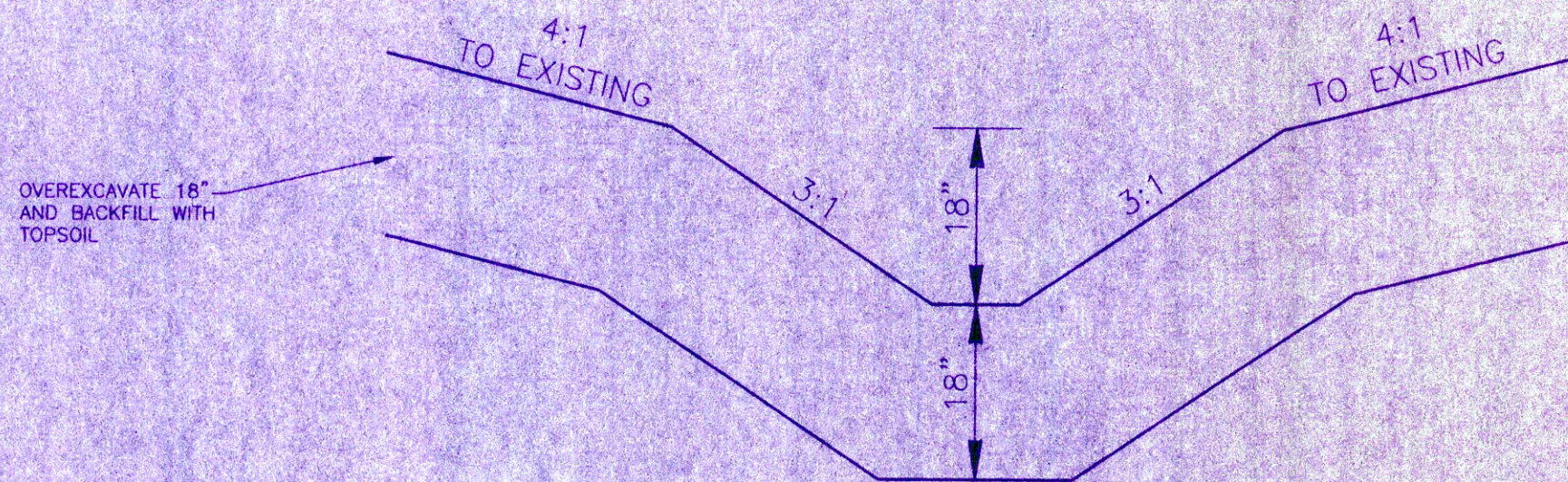
CHIEF, PM - D. E. D.

CKED BY : B.E.D.

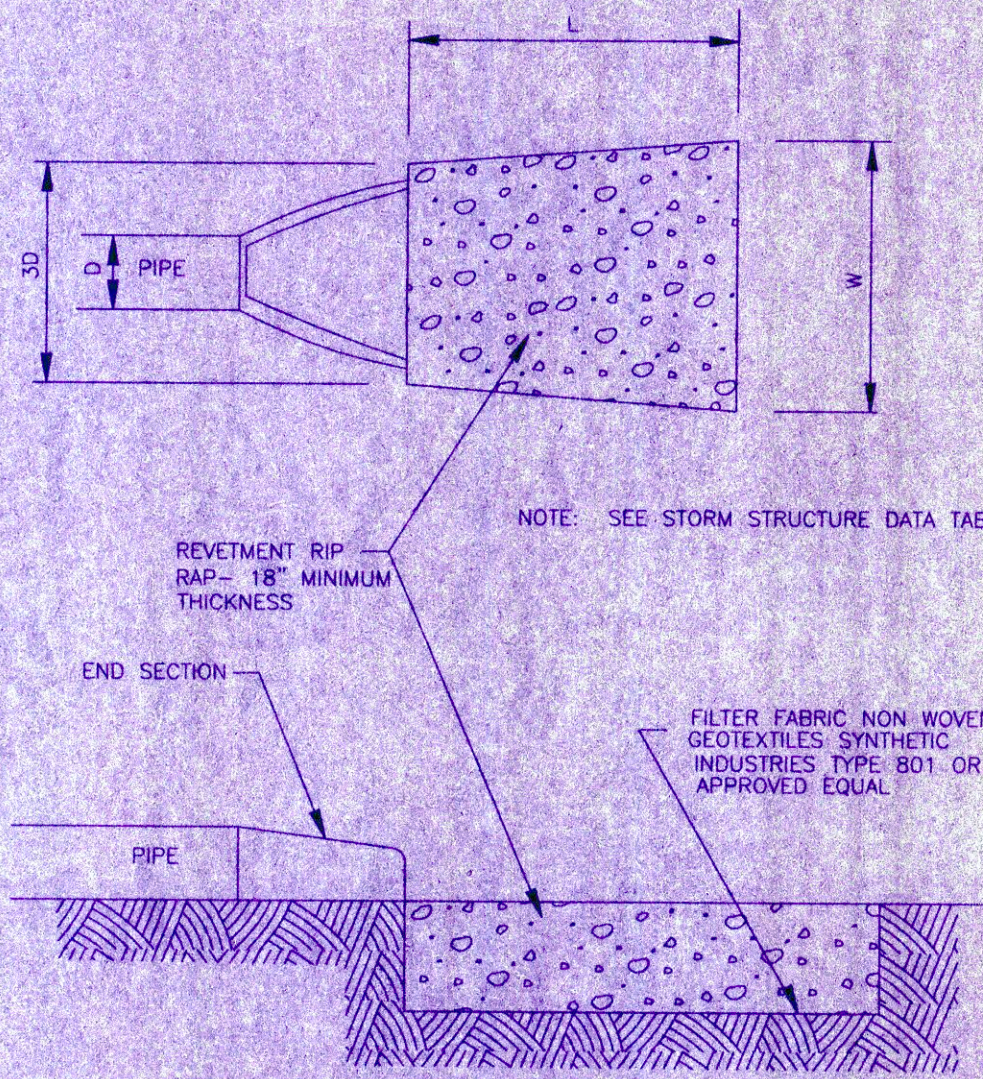
DRAINAGE PLAN

1 OF 2

PROJECT NO. **4986**



TYPICAL DITCH DETAIL



RIPRAP OUTLET PROTECTION

N.T.S.

PRE-DEVELOPED VS. POST DEVELOPED RUNOFF RATES

OUTLET	BASINS CONTRIBUTING	TOTAL AREA (ACRES)	TRAVEL PATH LENGTH (FT.)	TRAVEL PATH SLOPE (FT./FT.)	TIME OF CONCENTRATION SHEET FLOW ¹ (HRS./FT.) ONLY	TIME OF CONCENTRATION SHALLOW CONC. FLOW ²	TOTAL L ³	PRE-DEVELOPED RUNOFF COEFFICIENT (WOODLAND ROLLING)	POST-DEVELOPED RUNOFF COEFFICIENT	INTENSITY - # TABLE A-7 ⁴										PRE-DEVELOPED PEAK FLOWS ⁵										POST-DEVELOPED PEAK FLOWS ⁶									
										TIME OF CONCENTRATION		5 YR	10 YR	25 YR	50 YR	100 YR	5 YR	10 YR	25 YR	50 YR	100 YR	5 YR	10 YR	25 YR	50 YR	100 YR	5 YR	10 YR	25 YR	50 YR	100 YR	5 YR	10 YR	25 YR	50 YR	100 YR			
SEET FLOW TO NORTH POND	①	6.31	287	.12	7	5	5 (minimum)	.35	.36	6.14	6.99	8.08	8.83	9.69	12.6	15.4	17.8	19.5	21.4	13.9	15.9	18.4	20.1	22.0															
FLOW PATH TO WEST	②	9.17	814	.06	9	2.9 (OPEN CHANNEL)	5 (minimum)	.35	.36	6.14	6.99	8.08	8.83	9.69	19.7	22.4	25.9	28.3	31.1	20.3	23.1	26.7	29.1	32.0															
SEET FLOW TO CULVERT FROM BELLY ROAD	③	4.25	755	.05	1	2.9	5 (minimum)	.35	.37	6.14	6.99	8.08	8.83	9.69	9.3	10.6	12.3	13.4	14.8	9.9	11.2	13.0	14.2	15.6															
SEET FLOW TO INTERNAL POND	④	3.93	426	.06	9	1.4	5 (minimum)	.35	.38	6.14	6.99	8.08	8.83	9.69	8.4	9.6	11.1	12.1	13.3	9.2	10.4	12.1	13.2	14.5															
SEET FLOW TO EAST	⑤	1.45	196	.06	9	1.4	5 (minimum)	.35	.36	6.14	6.99	8.08	8.83	9.69	3.1	3.5	4.1	4.5	4.9	3.2	3.6	4.2	4.6	5.1															

¹ VELOCITY FROM FIGURE A-1-C COUNTY STORM MANUAL
² VELOCITY FROM FIGURE A-1-C COUNTY STORM MANUAL

APPENDIX C - CHECKLIST

MONROE COUNTY STORM WATER DESIGN TECHNICAL REVIEW CHECKLIST

PROJECT TOWNSHIP SECTION ACREAGE OF SITE

PRELIMINARY PLANS OR FINAL PLANS (circle one)

Note: Calculations for inlet spacing, storm sewer design, and ditch design are not required for preliminary approval. Items needed for final **Drainage Board** approval are in **bold**, and NA (not applicable) may be circled for these items.

EXISTING CONDITIONS

1. Has a location map been provided? (See Preliminary Plat, Sheet 1)
2. Is the site affected by a stream with a drainage area of greater than one square mile?
A. If YES, how has the 100 year flood elevation been determined?
___ 1. FEMA Study
___ 2. DNR
___ 3. Other (specify) _____
B. If YES, has the floodplain been delineated on the plan?
3. Is any part of the development in a critical watershed? (Appendix B)
4. Has topographic mapping been provided? (Note source of mapping) (Surveyed measurements - NAD 28, USGS 7.5' (1:25,000) (MARS, SW, COR SEC 2)
5. Check any of the following that exist on the site and show them on a plan sheet:
___ ponds, ___ watercourses, ___ sinkholes, ___ wetlands, ___ springs
___ ditches, ___ quarry pits, ___ roads, ___ buildings, ___ culverts, ___ storm sewers, ___ field tiles, ___ wells
6. Does runoff from off-site areas drain to the site?
7. Have existing drainage problems on the site and in the vicinity of the site been noted?
Yes = see dam, internal pond
8. Has the site been delineated on a copy of the County Soils Map (or have the soils been depicted on a plan sheet)? Flood prone soils should be noted. A copy of mapping showing flood prone soils is available in the County Planning Department and the County Highway Department (See Details Sheet, Sheet 3)
9. Have existing watersheds been delineated and measured for each outlet from the site? (See Drainage Plan - Sheet 5)

PROPOSED CONDITIONS

1. Is detention proposed?
A. If detention is not proposed, has notice been provided to the downstream property owners? (include green cards and letters, pre and post 100 year Qs)
B. If detention is proposed, what is the basis of design (check one)?
___ 1. Developed condition relative run - natural condition rate for two, ten, and 100 year storms
___ 2. Volume of 100 year storm retained (unshaded watershed)
___ 3. Other (specify) _____
C. Is grading shown in pond bottom? (minimum 1% slope or channel substrains, paved channel, Grading is discouraged if pond is in natural ravine with steep slopes.)
2. Has the proposed drainage system been shown on a plan sheet using flow arrows to depict road and channel drainage? (See Drainage Plan, This Sheet)
3. For final plan approval, have the invert elevations and materials of the storm sewers and culverts been shown on the plans or in a table along with run elevations of inlets and flow line elevations of proposed ditches and detention ponds? Note that pipe materials must conform with the standards in Appendix D. (See Drainage Plan, This sheet)
4. Have watershed delineations (with labeled areas) been shown for each of the proposed inlets, culverts, detention ponds, and points of discharge from the site? (See Drainage Plan, This sheet)
5. For final plan approval, have the methods for the design of all of the drainage system elements (including the storm sewer system, if applicable) been noted and have all tables and nomographs been referenced? Note that special methods for detention pond design are outlined in Section 7a, 7 and Appendix E. Rainfall information is available in Appendix F, and runoff coefficients and other reference information are included in Appendix G. (On Drainage Plan, This sheet)
6. Are the inlets in low spots designed assuming 50% capacity, and are overflows provided at those locations which drain to detention ponds ? (if detention is required at the site).
7. For final plan approval, have all calculations for the development of the time of concentration, runoff coefficients or curve numbers been submitted? (1.25 multiplier for 100 year storm) (On Drainage Plan, This sheet)
8. For final plan approval, has a summary of detention pond calculations been submitted which includes the elevation-capacity data for the ponds, the elevation-discharge information for the pond outlet, the peak elevations and discharges for the pond for the two, ten, and 100 year floods, and the two, ten, and 100 year peak inflow discharges in the pond? (using curve numbers and percent dead area as the most intensive use for the natural condition) Were a series of rainfall duration run to determine the critical duration

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PRELIMINARY PLAT
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DESIGNED BY : P.O.T.

DRAWN BY : D.L.S.

CHECKED BY : B.E.B.

DATE: APRIL, 2005

DRAINAGE
PLAN

SHEET

2 OF 2

PROJECT NO.

4986

Chain Bearers Jefferson, Wampler & James Harris anman
James R. Bushirk. Sworn.

commissioners Jefferson Wampler James R. Bushirk.
and Peter Allen. Sworn by me Oct 26th 1859-

James H. Spencer
Monroe County Surveyor

August 29th 1859.

Ran the following lines and made the following
corners in sections Nos 3 & 4. T⁹ R. 1. T. for J & C
Griffith Austin & George Turner John H. Whisman and W. H.
Bushirk & Alexander Turner. Corner made at the N
E corner of Section 3. ran with the section line 78. poles
18 links withup Red Elm 6 inches diam S 25° E 56 links
dist B Gum 8 in diam S 28° E 37 links dist then S 6° E
78 poles 19 links. withup Live Buck 25 in diam N 37° E 29
links dist Buck 8 in diam N 51° E. 4. lks dist, then began
at the N. W. cor. ran south on the section line 157. poles
19 links corner Buckeye 14 in diam withup Hackberry N 85° E
9 links at an Sec line 78 poles 421 links withup Sugar 4.
in diam N 20° E. 60 links Poplar 8 in diam N 82° E 34.
links dist then S 85° E. 78. poles 7. links withup Buck
8 inches S 56° E. 15 links 4. N 36° E. 28 links.

then began at the N E corner of Sec 4. T⁹ R. 1. met
withup Live gum and others made Buck 14 inches
diam S 81° E. 16 links. h. oak 30 in diam N 69° E 23 links
dist then east on the section line 160. poles 11 links
withup B. Gum 8 in diam S 39° E 39. lks dist Buck 12
inches diam N 89° E 93 lks dist

James H. Spencer, J. M. Cost, J. L. Griffith
William H. Bushirk. Sworn

the above survey made by J. S. Bushirk and
copied by me from the James H. Spencer
manuscript furnished Monroe County Surveyor
by said Bushirk,